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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2019 Defense Threat Reduction Agency	<b>Date:</b> February 2018
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<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>											
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 3: Advanced Technology Development (ATD)</i>	PE 0603134BR / <i>Counter Improvised-Threat Simulation</i>											
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	0.000	0.000	0.000	13.648	13.648	0.000	0.000	0.000	0.000	Continuing	Continuing
JC: <i>Enable Rapid Capability Delivery</i>	-	0.000	0.000	0.000	13.648	13.648	0.000	0.000	0.000	0.000	Continuing	Continuing

**Note**

PE 0603134BR / Counter Improvised-Threat Simulation activities were previously authorized and appropriated under the Joint Improvised-Threat Defeat Fund (JIDF).

**A. Mission Description and Budget Item Justification**

The Defense Threat Reduction Agency (DTRA) Counter Improvised-Threat Simulation Advanced Technology Development program element funds Technology Outreach as well as development of modeling-and-simulation and analysis support tools that enhance counter-improvised explosive devices (C-IED) and counter improvised threat (C-IT) efforts.

Enable Rapid Capability Delivery. Understanding the threat drives a DTRA-JIDO deliberate, structured, and proactive approach to identify and validate urgent or emergent capability gaps and requirements. JIDO's continuous embedded presence with deployed U.S. Joint Forces enables early identification and understanding of C-IED and C-IT gaps, vulnerabilities, and risks and the timely validation, resourcing, development, and delivery of C-IED and C-IT material and non-material solutions. DTRA-JIDO technical integrators embedded with deployed forces further enables rapid adjustments to solutions as the threat's adaptation evolves.

<b><u>B. Program Change Summary (\$ in Millions)</u></b>	<b><u>FY 2017</u></b>	<b><u>FY 2018</u></b>	<b><u>FY 2019 Base</u></b>	<b><u>FY 2019 OCO</u></b>	<b><u>FY 2019 Total</u></b>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	0.000	13.648	13.648
Total Adjustments	0.000	0.000	0.000	13.648	13.648
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Establish RDT&E Appropriation	-	-	0.000	13.648	13.648

**Change Summary Explanation**

The increase from FY 2018 to FY 2019 is due to the establishment of the 0603134BR / Counter Improvised-Threat Simulation program element in RDT&E appropriation. This reflects the realignment of the DTRA-JIDO research and development activities in accordance with Congressional intent to terminate the

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Defense Threat Reduction Agency		Date: February 2018
<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 3: Advanced Technology Development (ATD)		<b>R-1 Program Element (Number/Name)</b> PE 0603134BR / Counter Improvised-Threat Simulation
Joint Improvised-Threat Defeat Fund in section 9015 of the Chairman's recommendation to the Senate Appropriations Committee for the Department of Defense Appropriations Bill, 2018 (FY 2018 Baseline: \$0 million.)		

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Threat Reduction Agency										Date: February 2018		
Appropriation/Budget Activity 0400 / 3					R-1 Program Element (Number/Name) PE 0603134BR / Counter Improvised-Threat Simulation				Project (Number/Name) JC I Enable Rapid Capability Delivery			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
JC: Enable Rapid Capability Delivery	-	0.000	0.000	0.000	13.648	13.648	0.000	0.000	0.000	0.000	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

Enable Rapid Capability Delivery. Understanding the threat drives a DTRA-JIDO deliberate, structured, and proactive approach to identify and validate urgent or emergent capability gaps and requirements. JIDO's continuous embedded presence with deployed U.S. Joint Forces enables early identification and understanding of C-IED and C-IT gaps, vulnerabilities, and risks and the timely validation, resourcing, development, and delivery of C-IED and C-IT material and non-material solutions. DTRA-JIDO technical integrators embedded with deployed forces further enables rapid adjustments to solutions as the threat's adaptation evolves.

DTRA provides DoD up to an 18-month "head start" on addressing critical warfighter gaps, and enables DoD to deliver the most technologically advanced response to improvised threats. These capabilities are developed from previous JIDO experience and in concert with OGAs, National Labs, Academia, Private Industry, and International Partners.

This project employs Technology Outreach as well as development of modeling-and-simulation and analysis support tools to identify and validate urgent and emergent capability requirements and associated gaps. It provides rapid acquisition and delivery of C-IED and C-IT solutions to address these requirements and gaps.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
<b>Title:</b> JC: Enable Rapid Capability Delivery	0.000	0.000	0.000	13.648	13.648
<b>FY 2018 Plans:</b> N/A					
<b>FY 2019 Base Plans:</b> N/A					
<b>FY 2019 OCO Plans:</b> - Improve detection capabilities through baseline threat signatures for vehicles, explosives, and other threats in support of sensor capability development. - Develop common database for signatures for DoD and OGA to use for sensor development and Tactics, Techniques, and Procedures (TTPs). - Identify and maintain database of future threats and technologies that can be incorporated into improvised threats in support of future capability development.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2019 Defense Threat Reduction Agency				<b>Date:</b> February 2018		
<b>Appropriation/Budget Activity</b> 0400 / 3		<b>R-1 Program Element (Number/Name)</b> PE 0603134BR / Counter Improvised-Threat Simulation		<b>Project (Number/Name)</b> JC / Enable Rapid Capability Delivery		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>						
		<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
- Conduct testing and evaluation of future technology development in support of counter improvised threats.  <b><i>FY 2018 to FY 2019 Increase/Decrease Statement:</i></b> The increase from FY 2018 to FY 2019 is due to the establishment of JC: Enable Rapid Capability Delivery project in 0603134BR / Counter Improvised-Threat Simulation in the RDT&E appropriation. This reflects the realignment of the DTRA-JIDO research and development activities in accordance with Congressional intent to terminate the Joint Improvised-Threat Defeat Fund in section 9015 of the Chairman's recommendation to the Senate Appropriations Committee for the Department of Defense Appropriations Bill, 2018 (FY 2018 Baseline: \$0 million.)						
<b>Accomplishments/Planned Programs Subtotals</b>		0.000	0.000	0.000	13.648	13.648
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A						
<b>Remarks</b>						
<b>D. Acquisition Strategy</b> N/A						
<b>E. Performance Metrics</b> N/A						